

WHAT IS CLAIMED IS:

1. A developing apparatus comprising:

5 a developer carrying member, for carrying a developer to a developing portion, said developer carrying member including an electroconductive base and a resistance layer provided thereon;

10 a developer feeding member for being supplied with a voltage to supply the developer to said developer carrying member;

15 wherein a surface moving speed of said developer carrying member V_p [mm/sec], a resistance R_1 (Ω) of said developer carrying member when an electric current applied said developer carrying member is $0.04V_p$ [μA], and a resistance R_2 (Ω) of said developer carrying member when the electric current applied to said developer carrying member is $4V_p$ [μA], satisfy:

$$r_1/R_2 < 15.$$

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2. An apparatus according to Claim 1, wherein the resistance R_1 satisfies $R_1 < 108\Omega$, and the resistance R_2 satisfies $105\Omega \leq R_2$.

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3. An apparatus according to Claim 1, wherein $r_1/R_2 < 5$ is satisfied.

4. An apparatus according to Claim 1 or 2,
wherein the voltage is not less than a discharge
starting voltage at which electric discharge starts
between said developer carrying member and said
5 developer feeding member.

5. An apparatus according to Claim 1 or 2,
wherein when an electric current applied to said base
is $4V_p$ [μA], a potential V_1 (V) of said base and a
10 surface potential V_2 (V) of said developer carrying
member at said developing portion, satisfy:
$$0.8 < V_2/V_1 < 1.2.$$

6. An apparatus according to Claim 1 or 2,
15 wherein said developer feeding member is supplied with
the voltage such that not less than $0.08V_p$ [μA]
current of the same charge polarity as the developer
flows from said developer feeding member to said
developer carrying member.

20 7. An apparatus according to Claim 1, wherein
said developer feeding member is in the form of
electroconductive wire.

25 8. An apparatus according to Claim 7, wherein
said electroconductive wire is not rotatable.

9. An apparatus according to Claim 1, wherein a portion around a periphery of said developer feeding member is filled with the developer at least when said developer feeding member is driven.

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10. An apparatus according to Claim 1, wherein said developing apparatus is detachably mountable to a main assembly of an image forming apparatus.

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11. An apparatus according to Claim 1, wherein said developing device is detachably mountable to a main assembly of an image forming apparatus together with an image bearing member for which said developing device is operable for development.

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12.1. A developing apparatus comprising:

a developer carrying member, for carrying a developer to a developing portion, said developer carrying member including an electroconductive base and a resistance layer provided thereon;

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a developer feeding member for being supplied with a voltage to supply the developer to said developer carrying member;

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wherein a surface moving speed V_p [mm/sec] of said developer carrying member, a potential V_1 (V) of said base layer when an electric current applied to said base is $4V_p$ [μA], and a surface potential V_2 of

said developer carrying member at said developing portion, satisfy

$$0.8 < V_2/V_1 < 1.2.$$

5 13. An apparatus according to Claim 12, wherein the voltage is not less than a discharge starting voltage at which electric discharge starts between said developer carrying member and said developer feeding member.

10 14. An apparatus according to Claim 12, wherein said developer feeding member is supplied with the voltage such that not less than $0.08V_p$ [μA] current or the same charge polarity as the developer flows from said developer feeding member to said developer carrying member.

15 15. An apparatus according to Claim 12, wherein said developer feeding member is in the form of
20 electroconductive wire.

 16. An apparatus according to Claim 15, wherein said electroconductive wire is not rotatable.

25 17. An apparatus according to Claim 12, wherein a portion around a periphery of said developer feeding member is filled with the developer at least when said

developer feeding member is driven.

18. An apparatus according to Claim 12, wherein
said developing apparatus is detachably mountable to a
5 main assembly of an image forming apparatus.

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